PATENT COOPERATION TREATY

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REC'D 24 JAN 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

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(PCT Article 36 and Rule 70)

| | | | G 7 D CM/IDE 4 /416 | |
|---|--|--------------------|--------------------------------|--|
| Applicant's or agent's file reference 2100651 | FOR FURTHER ACTION | • | See Form PCT/IPEA/416 | |
| nternational application No. | International filing date (day | v/month/year) | Priority date (day/month/year) | |
| PCT/SG2004/000351 | 25 October 2004 | | 29 October 2003 | |
| international Patent Classification (IPC) or | national classification and IP | C | | |
| Int. Cl. C12Q 1/00 (2006.01) C12Q 1/26 (2006.01) G01N 27/26 (2006.01) C12Q 1/18 (2006.01) C12Q 1/54 (2006.01) G01N 33/543 (2006.01) | | | | |
| Applicant | | | | |
| AGENCY FOR SCIENCE, TEC | HNOLOGY AND RESEA | RCH et al. | · | |
| 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. | | | | |
| 2. This REPORT consists of a total of 4 | sheets, including this cover s | heet. | | |
| 3. This report is also accompanied by AN | NEXES, comprising: | • | · | |
| a. X (sent to the applicant and to th | | of 5 sheets, a | s follows: | |
| sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the | | | | |
| Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. | | | | |
| b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). | | | | |
| 4. This report contains indications relating | ng to the following items: | | _ | |
| X Box No. I Basis of the repo | s of the report | | | |
| Box No. II Priority | Priority | | | |
| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | | | | |
| Box No. IV Lack of unity of | Lack of unity of invention | | | |
| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | |
| Box No. VI Certain docume | | | | |
| Box No. VII Certain defects | Certain defects in the international application | | | |
| Box No. VIII Certain observations on the international application | | | | |
| Date of submission of the demand | Date | e of completion of | of this report | |
| 29 August 2005 | | January 2006 | | |
| Name and mailing address of the IPEA/AU | | norized Officer | • | |
| AUSTRALIAN PATENT OFFICE | | | • | |
| PO BOX 200, WODEN ACT 2606, AUSTRALIA | | BERT S. J. YO | ONG · | |
| E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 | Tele | ephone No. (02) | 6283 | |
| · | | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

| INTERNATIONAL PRELIMINARY REPORT ON PATENTADICITY | Intollianonal abbusiness and |
|---|--|
| • | PCT/SG2004/000351 |
| I Basis of the report | |
| th regard to the language, this report is based on: | |
| The international application in the language in which it was filed | • |
| A translation of the international application into translation furnished for the purposes of: | , which is the language of a |
| international search (under Rules 12.3(a) and 23.1 (b)) | • |
| publication of the international application (under Rule 12.4(a)) | |
| international preliminary examination (Rules 55.2(a) and/or 55.3(a)) | • |
| ith regard to the elements of the international application, this report is based on (remished to the receiving Office in response to an invitation under Article 14 are referred and are not annexed to this report): the international application as originally filed/furnished | replacement sheets which have been ferred to in this report as "originally |
| the description: | • |
| pages 1-40, 49(abstract) as originally filed/furnished | • |
| pages* received by this Authority on with the letter of | • |
| pages* received by this Authority on with the letter of | • |
| the claims: | • |
| pages as originally filed/furnished | A |
| pages* as amended (together with any statement) under A | Article 19 DOS with the letter of 21 December 200 |
| pages*41-45 received by this Authority on 21 December 20 pages* received by this Authority on with the letter of | |
| | |
| the drawings: pages 1/15-15/15 as originally filed/furnished | • |
| pages 1/15-15/15 as originally filed/furnished pages* received by this Authority on with the letter of | |
| pages* received by this Authority on with the letter of | |
| a sequence listing and/or any related table(s) - see Supplemental Box Relating | to Sequence Listing. |
| The amendments have resulted in the cancellation of: | • |
| the description, pages | • |
| The claims, Nos. 26-45 | |
| | • |
| the drawings, sheets/figs | • |
| the sequence listing (specify): | • |
| any table(s) related to the sequence listing (specify): | |
| This report has been established as if (some of) the amendments annexed to the made, since they have been considered to go beyond the disclosure as filed, as 70.2(c)). | is report and listed below had not been indicated in the Supplemental Box (Rul |
| | |
| the description, pages | |
| the description, pages the claims, Nos. | |
| the claims, Nos. | |
| the claims, Nos. the drawings, sheets/figs | |
| the claims, Nos. | |

If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SG2004/000351

30x No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| · · · · · · · · · · · · · · · · · · · | | |
|---------------------------------------|--------------------|-------|
| Statement | | |
| Novelty (N) | Claims 1-25 | YES |
| | Claims | . NO |
| Inventive step (IS) | Claims 1-25 | · YES |
| • | Claims | NO |
| Industrial applicability (IA) | Claims 1-25 | YES |
| | Claims | NO |
| | | |

^{2.} Citations and explanations (Rule 70.7)

CITATIONS

- D1. XIE, Anal. Chem. Vol 76, No. 6 (2004)
- D2. ZHANG, Sensors and Actuators, B 101 (2004)
- D3. BU, Anal. Chem. Vol 68, no.22 (1996)
- D4. BU, Anal. Chem. Vol 68, no.20
- D5. US 4341881

NOVELTY AND INVENTIVE STEP.

Claims 1-25: The claimed invention broadly relates to a biosensor comprising a detection electrode, a first layer on the electrode comprising a complex of capture molecule and analyte molecule and a second layer comprising an electrochemical activator. These features are disclosed in each of citations D1 and D2. However, it should be noted that these documents were published after the earliest priority date of the claims and they may be of relevance to certain elected states at the national phase stage.

International application No.

| INTERNATIONAL PRELIMINARY REPORT ON PATERIA | ADICALIA |
|---|---|
| · | PCT/SG2004/000351 |
| pplemental Box Relating to Sequence Listing | • |
| ontinuation of Box No. I, item 2: | |
| With regard to any nucleotide and/or amino acid sequence disclosed in claimed invention, this report was established on the basis of: | the international application and necessary to the |
| a. type of material | |
| X a sequence listing | |
| table(s) related to the sequence listing | |
| b. format of material | • |
| X on paper | |
| X in electronic form | |
| c. time of filing/furnishing | • |
| c. This of this factoring to the international application as filed | |
| illed together with the international application in electron | ic form |
| furnished subsequently to this Authority for the purposes of | |
| received by this Authority as an amendment* on | |
| | 1: 1: 1/- table(a) relating thouse has been |
| In addition, in the case that more than one version or copy of a filed or furnished, the required statements that the information in the application as filed or does not go beyond the application | in the subsequent or additional copies is identical to that |
| . Additional comments: | • |
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If item 4 in Box No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked "superseded."